LITERATURE CITED

- American National Standards Institute. 1986. Methods for measurement of impulse noise (ANSI S12.7-1986). New York: Acoustical Society of America.
- ANSI. 2005. Measurement of sound pressure levels in air (ANSI S1.13-2005). Acoustical Society of America, Woodbury, NY.
- Blackwell, S.B., J.W. Lawson, and M.T. Williams. 2004. Tolerance by ringed seals (*Phoca hispida*) to impact pipe-driving and construction sounds at an oil production island. Journal of the Acoustical Society of America. 115(5): 2346-2357.
- Blackwell, S.B. and C.R. Greene Jr. 2002. Acoustic measurements in Cook Inlet, Alaska during August 2001. Greeneridge Report 271-2. Report from Greeneridge Sciences, Inc., Santa Barbara for National Marine Fisheries Service, Anchorage, AK. 43 p.
- Burns, J.J. 2009. Harbor seal and spotted seal (*Phoca vitulina and P. largha*)., In: Perrin W.F., B. Wursig, and J.G.M. Thewissen (eds.) Encyclopedia of Marine Mammals, second edition, pp. 533 542, Academic Press Inc. San Diego, CA.
- Carlson, T.J, D.L. Woodruff, G.E. Johnson, N.P. Kohn, G.R. Ploskey, M.A. Weiland, J.A. Southard, and S.L. Southard. 2005. Hydroacoustic Measurements during Pile Driving at the Hood Canal Bridge, September through November 2004. Report prepared for Washington State Department of Transportation, Olympia, WA
- Clark, C.W., W.T. Ellison, B.L. Southall, L. Hatch, S.M. Van Parijs, A. Frankel, and D. Ponirakis. 2009. Acoustic masking in marine ecosystems: intuitions, analysis, and implication. Marine Ecology Progress Series 395:201-222.
- Cox, T.M., T.J. Ragen, A.J. Read, E. Vos, R.W. Baird, K. Balcomb, et al. 2006. Understanding the impacts of anthropogenic sound on beaked whales. Journal of Cetacean Research and Management 7 (3):177-187.
- Crain, Jonathan L. CIV NACFAC NW, EV41. 2015. Personal Communication to DiMatteo, Andrew CIV NAVFAC LANT, EV; Hotchkin, Cara F CIV NAVFAC Atlantic, Cc: Bort, Jacqueline E CIV NAVFAC LANT, EV; Bassi, Jessica CIV NAVFAC MIDLANT, EV. Subject: RE: Draft Acoustic Analysis Plan for Berths 11, 12, and 13.
- Department of Fisheries and Oceans. 2003. Atlantic Seal Hunt: 2003 2005 Management Plan.

 Department of Fisheries and Oceans. Fisheries Resource Management Atlantic, Ottawa, Ontario, Canada. 34 pp.
- Department of the Navy. 2010. Incidental Harassment Authorization Application for the Navy's EHW-1 Pile Replacement Project Conducted at Naval Base Kitsap Bangor, Submitted to NMFS Office of Protected Resources.
- ESS Group, Inc. 2015. PNSY Dry Dock No. 1 Lifting and Handling Improvements Ambient Sound Assessment Results, Kittery, Maine, ESS Project No. N492-000.02. Massachusetts, Rhode Island, and Virginia Field Offices.

- Finneran, J.J., C.E. Schlundt, D.A. Carder, J.A. Clark, J.A. Young, J.B. Gaspin, and S.H. Ridgway. 2000. Auditory and behavioral responses of bottlenose dolphins (Tursiops truncatus) and a beluga whale (Delphinapterus leucas) to impulsive sounds resembling distant signatures of underwater explosions. Journal of the Acoustical Society of America 108:417-431.
- Finneran, J.J., R. Dear, D.A. Carder, and S.H. Ridgway. 2003. Auditory and behavioral responses of California sea lions (*Zalophus californianus*) to single underwater impulses from an arc-gap transducer. Journal of the Acoustical Society of America. 114(3): 1667-1677.
- Finneran, J. J., D. A. Carder, C. E. Schlundt, and S. H. Ridgway, 2005. Temporary threshold shift in bottlenose dolphins (Tursiops truncatus) exposed to mid-frequency tones. Journal of the Acoustical Society of America 118:2696–2705.
- Foote, A.D., R.W. Osborne, and A.R. Hoelzel. 2004. Whale-call response to masking boat noise. Nature 428-910.
- Gordon, J., D. Gillespie, J. Potter, A. Frantzis, M.P. Simmonds, R. Swift, and D. Thompson. 2004. A review of the effects of seismic surveys on marine mammals. Marine Technology Society Journal 37 (4):16-34.
- Harris, C.M. 1998. Handbook of acoustical measurements and noise control (3rd Edition). Huntington, NY: Acoustical Society of America.
- Hastings, M.C., and A.N. Popper. 2005. Effects of Sound on Fish. Report prepared by Jones and Stokes for California Department of Transportation, Contract No. 43A0139, Task Order 1.
- Hildebrand, J. A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. Mar. Ecol. Prog. Ser. 395, 5–20.
- Holt, M.M., D.P. Noren, V. Veirs, C.K. Emmons, and S. Veirs. 2009. Speaking up: Killer whales (Orcinus orca) increase their call amplitude in response to vessel noise. Journal of the Acoustical Society of America 125 (1):EL27-32.
- ICF Jones & Stokes, and Illingworth and Rodkin, Inc. 2012. Compendium of Pile Driving Sound Data. October 2012. Updated from Technical Guidance for Assessment and Mitigation of Hydroacoustic Effect of Pile Driving on Fish. Prepared for California Department of Transportation. February 2009. 215pp.
- ISO (International Organization for Standardization). 2003. Acoustics Description, measurement and assessment of environmental noise Part 1: Basic quantities and assessment procedures (ISO 1996- 1:2003(E)). International Organization for Standardization, Geneva
- Kastak, D., R.J. Schusterman, B.L. Southall and C.J. Reichmuth. 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. Journal of the Acoustic Society of America. Journal of the Acoustic Society of America. 106(2):1142-1148.

- Kastelein, R.A., P. Wensveen, L. Hoek, and J.M. Terhune. 2009. Underwater hearing sensitivity of harbor seals (Phoca vitulina) for narrow noise bands between 0.2 and 80 kHz. Journal of the Acoustical Society of America 126 (1):476-483.
- Katona, S.K., V. Rough, and D.T. Richardson. 1993. A field guide to whales, porpoises, and seals from Cape Cod to Newfoundland. Smithsonian Institution Press, Washington, DC. 316 pp.
- Ketten, D.R. and D.C. Mountain. 2009. Beaked and baleen whale hearing: Modeling responses to underwater noise. Report No. NPS-OC-09-005, Naval Postgraduate School: 34.
- Krause, David J. CIV NAVFAC MIDLANT, EV. 2015. Personal Communication to Jessica Forbes Project Manager ENE, Cc: Moore, Kari S CIV NAVFAC MIDLANT, PWD Maine; Bassi, Jessica CIV NAVFAC MIDLANT, EV. Subject: RE: Draft Acoustic Analysis Plan for Berths 11, 12, & 13.
- Kryter, K.D. 1985. The Effects of Noise on Man. Academic Press, New York.
- Kyhn, L.A., J. Tougaard, F. Jensen, M. Wahlberg, G. Stone, A. Yoshinaga, et al. 2009. Feeding at a high pitch: Source parameters of narrow band, high-frequency clicks from echolocating off-shore hourglass dolphins and coastal Hector's dolphins. Journal of the Acoustical Society of America 125 (3):1783-1791.
- Laughlin, J. 2005. Underwater Sound Levels Associated with the Restoration of the Friday Harbor Ferry Terminal. Washington State Department of Transportation, Seattle, WA.
- Lucifredi, I. and P.J. Stein. 2007. Gray whale target strength measurements and the analysis of the backscattered response. Journal of the Acoustical Society of America 121 (3):1383-1391.
- Lucke, K., Siebert, U., Lepper, P. A. and Blanchet, M.-A. (2009). Temporary shift in masked hearing thresholds in a harbor porpoise (Phocoena phocoena) after exposure to seismic airgun stimuli. J. Acoust. Soc. Am. 125, 4060-4070.
- May-Collado, L. and I. Agnarsson. 2006. Cytochrome b and Bayesian inference of whale phylogeny. Molecular Phylogenetics and Evolution 38 (2):344-354.
- Mitson, R.B. (ed.). 1995. Underwater Noise of Research Vessels: Review and Recommendations. ICES Coop. Res. Rep. No. 209, 61.
- Mohn, R. and W.D. Bowen. 1996. Grey seal predation on the eastern Scotian Shelf: Modeling the impact on Atlantic cod. *Canadian Journal of Fisheries and Aquatic Sciences*. 53: 2722 2738.
- Morton, A. B. & Symonds, H. K. 2002. Displacement of Orcinus orca (L.) by high amplitude sound in British Columbia, Canada. ICES Journal of Marine Science 59, 71–80
- Nedwell, J.R. and B. Edwards. 2002. Measurements of Underwater Noise in the Arun River during Piling at County Warf, Littlehampton. Subacoustech Report Reference: 513 R 0108.

- NIOSH (National Institute for Occupational Safety and Health). 1998. Criteria for a recommended standard: Occupational noise exposure. United States Department of Health and Human Services, Cincinnati, OH
- NRC 2003. NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academies Press, Washington, DC.
- Nowacek, D.P., L.H. Thorne, D.W. Johnston, and P.L. Tyack. 2007. Responses of cetaceans to anthropogenic noise. Mammal Review. 37(2): 81-115.
- Oestman, R., D. Buehler, J. Reyff, and R. Rodkin. 2009. Technical guidance for assessment and mitigation of the hydroacoustic effects of pile driving on fish. Prepared by ICF Jones & Stokes and Illingworth & Rodkin, Inc. for the California Department of Transportation: 298.
- Pearson, W.H., J.R. Skalski, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on behavior of captive rockfish (Sebastes spp.). Canadian Journal of Fisheries and Aquatic Sciences 49: 1343-1356.
- Reichmuth, C. and M.M. Holt. 2013. Comparative assessment of amphibious hearing in pinnipeds. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural and Behavioral Physiology 199 (6):491-507.
- Reyff, J. 2007. Compendium of pile driving sound data. Prepared by Illingworth & Rodkin, Inc. for the California Department of Transportation: 129.
- Richardson, W.J., C.R. Greene, Jr., C.I. Malme, and D.H. Thomson. 1995. Marine Mammals and Noise. Academic Press, San Diego, CA.
- Ridgway, S.H., D.A. Carder, R.R. Smith, T. Kamolnick, C. E. Schlundt, and W. R. Elsberry, 1997. Behavioral responses and temporary shift in masked hearing threshold of bottlenose dolphins, Tursiops truncatus, to 1-second tones of 141 to 201 dB re 1 μPa. Technical Report 1751, Revision 1. San Diego, California: Naval Sea Systems Command.
- Scholik, A.R., and H.Y. Yan. 2001. Effects of underwater noise on auditory sensitivity of a cyprinid fish. Hearing Research 152:17-24.
- ______. 2002. The effects of noise on the auditory sensitivity of the bluegill sunfish, *Lepomis macrochirus*. Comp. Biochemical PhysiologyA 133:43-52.
- Skalski, J.R., W.H. Pearson, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on catch-per-unit-effort in a hook-and-line fishery for rockfish (Sebastes spp.). Canadian Journal of Fisheries and Aquatic Sciences 49: 1357-1365.
- Schlundt, C.E., J.J. Finneran, D.A. Carder, and S.H. Ridgway. 2000. Temporary shift in masked hearing thresholds (MTTS) of bottlenose dolphins and white whales after exposure to intense tones. Journal of the Acoustical Society of America 107:3496-3508.

- Southall, B.L., A.E. Boelws, W.T. Ellison, J.J. Finneran, R.L. Gentry, C.R. Green, Jr., D. Kastak, D.R. Ketten, J.H. Miller, P.E. Nachtigall, W.J. Richardson, J.A. Thomas, and P.L. Tyack. 2007. Marine Mammal Noise Exposure Criteria: Initial Scientific Recommendations. *Aquatic Mammals*. 33(4).
- Smith, B.W. n.d. The Marine Living Resources of the Piscataqua River. New Hampshire Fish and Game Department. Online:

 http://des.nh.gov/organization/divisions/water/wmb/coastal/ocean_policy/documents/te_workshop_piscataqua_marine.pdf. Accessed August 21, 2014.
- Temte, J.L., M.A. Bigg, and O. Wiig. 1991. Clines revisited: the timing of pupping in the harbor seal (*Phoca vitulina*). *Journal of the Zoological Society of London*. 224: 617 632.
- Thorson, P. and J.A. Reyff. 2006. San Francisco-Oakland Bay Bridge East Span Seismic Safety Project: marine mammal and acoustic monitoring for the marine foundations at piers E2 and T1, JanuarySeptember 2006. Prepared by SRS Technologies and Illingworth & Rodkin, Inc. for the California Department of Transportation: 51.
- Tougaard, J. and L.A. Kyhn. 2010. Echolocation sounds of hourglass dolphins (Lagenorhynchus cruciger) are similar to the narrow band high-frequency echolocation sounds of the dolphin genus Cephalorhynchus. Marine Mammal Science 26 (1):239-245.
- Trzcinski, M.K., R. Mohn, and W.D. Bowen. 2005. Estimation of grey seal population size and trends at Sable Island. DFO Research Document 2005/067. Canadian Department of Fisheries and Oceans. Ottawa, Ontario. 10 pp. Online:

 http://www.dfompo.gc.ca/CSAS/Csas/DocREC/2005/RES2005_067_e.pdf. Accessed December November 24, 2014.
- Tubelli, A.A., A. Zosuls, D.R. Ketten, M. Yamato, and D.C. Mountain. 2012. A prediction of the minke whale (Balaenoptera acutorostrata) middle-ear transfer function. Journal of the Acoustical Society of America 132 (5):3263-3272
- Urick, Robert J. 1983. Principles of underwater sound. 3rd ed. New York: McGraw-Hill.
- Waring, G.T., E. Josephson, C.P. Fairfield-Walsh, K. Maze-Foley, and editors. 2007. U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessment Report 2007. NOAA Tech Memo NMFS NE 205. 415 p.
- ______. 2014. U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessments -- 2013. NOAA Tech Memo NMFS NE 228; 464p.
- Wartzok, D., A.N. Popper, J. Gordon and J. Merrill. 2003/04. Factors affecting the responses of marine mammals to acoustic disturbance. Marine Technology Society Journal 37(4):6-15.
- Watkins, W.A. 1986. Whale reactions to human activities in Cape Cod waters. Marine Mammal Science 2 (4):251-262.
- Yelverton, J.T., D.R. Richmond, E.R. Fletcher, and R.K. Jones. 1973. Safe distances from underwater explosions for mammals and birds. Lovelace Foundation, Albuquerque, DNA 3114T.